

CLIMATOLOGICAL DATA FOR MAY, 1911.

DISTRICT No. 1, NORTH ATLANTIC STATES.

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GENERAL SUMMARY.

The weather conditions in the North Atlantic States for May, 1911, were especially noteworthy because of the intense general heat that prevailed after the first week. The high monthly temperature did not result from the usual sporadic hot days characteristic of spring weather, but from the humid, long-continued periods of heat usually associated with the months of midsummer. Indeed, the month, with its abnormally high day temperatures, its large number of clear days and high percentage of sunshine, its general deficiency in precipitation and severe local thundershowers, was much more like a typical June or September than like the traditional cool, showery May. Many stations reported the highest monthly mean temperature ever recorded in May, and the records for several of these stations are for over 40 years. The abnormal heat was due principally to the protracted duration of an area of high barometric pressure over the South Atlantic States accompanied by a storm area over the Northwest. The relative position of these pressure areas caused southerly winds and warm weather conditions over practically all the eastern part of the country. This pressure distribution continuing from the 9th to the 13th and from the 15th to the 21st, the temperature continued to rise and by the 22d a warm wave of unusual severity was general over the North Atlantic States.

A warm May is proverbially a dry May and the current month was no exception to the rule. In the southern part of the district the month was the driest May on record and in the northern and central sections it has been less dry only two or three times in the past 30 years. The drought conditions became evident during the second week, as no good general soaking rain had occurred since the middle of April. The immediate coast region and the southern parts of the district were most seriously affected. In the more northern sections the planting season was late and the drought condition was not as serious as in eastern New York, New Jersey, and southward, where considerable loss was sustained by agriculturists and truck farmers. In many of the cities and larger towns there was an actual water famine. The month closed with moderate to heavy showers general in all sections, except in Maine, and the droughty conditions were somewhat relieved.

As might be expected from the general prevalence of high barometric pressure there was abundant sunshine and the number of clear days for the month averaged 17. Thunderstorms were quite general during the third decade and damaging electrical storms occurred in southwestern New York and central Pennsylvania.

TEMPERATURE.

The average temperature for the district was 65.1° , or 4.8° above the normal. In New England and New York

the monthly mean temperature exceeded any previous records for May, and in other sections of the district only one warmer May has been experienced, and that occurred in 1896. The average temperature for May, 1911, was only 0.7° cooler than June, 1910, and 0.8° cooler than September, 1910. The excess was general over the entire district. The temperature of the New England section averaged 60.5° , or 5° above the normal; New York 63.9° , 5° above; Pennsylvania 65.5° , 6.1° above; New Jersey 64.5° , 4.3° above; Maryland and Delaware 68.1° , 4.9° above; West Virginia 65.2° , 4.1° above; and Virginia 67.7° , 3° above the normal. So general was the unusual heat that only one station in the district, Hyannis, Mass., reported a deficiency in temperature, and that only 0.2° below the normal. At individual stations the mean temperatures ranged from 71.6° at Annapolis, Md., and Lincoln, Va., to 51.0° at Eastport, Me.

The highest daily temperature in the district was 102° at Lincoln, Loudon County, Va., on May 22. Temperatures of 100° or over occurred on the 22d at four stations in Maine, two in New Hampshire, one in Maryland, and one in Virginia. In many stations in the St. Lawrence Valley and northern New England not only were all records for May exceeded, but in some instances, even the highest known temperatures in the midsummer months were surpassed. Daily temperatures of over 90° were of frequent occurrence throughout the district. In extensive areas in New York, Pennsylvania, New Jersey, Delaware, West Virginia, and Virginia the daily temperature was from 6 to 18° above the normal on from 10 to 18 successive days. The change in temperature conditions occurred with marked uniformity from Maine to Virginia. The month opened with about the normal temperature but on the early morning of the 2d there was a sharp drop in temperature and damaging frosts occurred in all sections. This cold period lasted until the 6th or 7th and the lowest temperatures of the month at all stations occurred during the first week. Temperatures as low as 16 and 17° occurred in northern New England and central New York. Freezing temperatures occurred on one or more nights of the first week in May from Maine to the tidewater counties of Virginia, except that a very limited area along the coast from southeastern New York southward escaped the general killing frost. Considerable damage resulted in West Virginia and parts of the Susquehanna Basin, but elsewhere extensive planting had been retarded by the cold, wet condition of the soil in April, and vegetation had not advanced sufficiently for general damage from the freeze.

Normal temperatures prevailed from the 7th to the 9th, but on the 10th the conditions set in that produced the marked excess in temperature for the month. From the 10th to the 15th the temperature was from 6° to 10° in excess of the normal. Vegetation advanced rapidly, although evidences of drought had appeared in New England. From the 16th to the 30th intense heat prevailed over the entire inland part of the district and this heated

period has seldom, if ever, been equalled in duration within the past 40 years. At times during this period schools and factories were closed, and special warnings regarding the intense heat were issued. Many deaths resulted from heat prostrations. Along the coast from Massachusetts to Delaware the heat wave was far less severe than in the interior and the modifying influence of the ocean was noticeable as much as 50 miles inland. In parts of Long Island the temperature was from 24° to 30° lower than in the central part of New York on the same day. The highest temperature at New York City was only 84° on the 22d, the same day that other stations recorded over 100° . In New Jersey similar conditions prevailed, the coolest weather occurring on the coast rather than in the northern interior as usual.

An area of low pressure with unsettled weather and general thunder showers brought much relief on the 30th and 31st.

PRECIPITATION.

The precipitation for the district averaged 1.52 inches, or 2.19 inches below the normal. Only three stations recorded amounts above normal, while 204 reported a deficiency in precipitation. With two or three exceptions, the years differing in the several sections, May, 1911, was the driest May on record. In New England the average rainfall was 1.15 inches, or 2.40 inches below the normal. The precipitation was from showers and very unevenly distributed. Maine was the driest State, the amounts in the eastern and northern counties averaging less than 0.50 inch for the month. Some localities in these regions reported a monthly amount too small to be measured. In New York the average fall was 2.07 inches, or 1.65 inches below the normal, the amounts decreasing toward the lower Hudson Valley and Long Island Sound. In New York City and contiguous regions great inconvenience resulted from the need of a sufficient water supply. In Pennsylvania the rainfall was little more than half the usual amount for May, and averaged 2.14 inches with a departure from the normal of 1.69 inches. Maryland and Delaware reported a monthly average of only 1 inch, which is 2.69 inches less than the normal, and in New Jersey the average rainfall, 1.37 inches, is less than for any May, except in 1903 and 1887, since the beginning of the records. In West Virginia 1.94 inches is the section average and the deficiency is 1.41 inches. For that part of Virginia included within the district the average precipitation was only 0.94 inch, or 3.01 inches less than the normal. The greatest amount at any station was 6.81 at Hamburg, Pa., and the least amount was a trace at Bar Harbor, Me., and Chestertown, Md.

The greatest amount of precipitation in any 24-hour period was 2.96 inches at Hamburg, Pa., on the 31st.

During the first decade the precipitation for the district was generally light and consisted mainly of showers on the 1st and 2d and snow flurries on the 3d, 4th, and 5th, in Maine, New Hampshire, Vermont, New York, and the northern counties of Pennsylvania. From the 10th to the 22d precipitation was light, except in western Massachusetts and parts of Rhode Island, Connecticut, and northern New York, where moderately heavy showers occurred. Large areas in the district were without rain for the greater part of the month, and the intense heat and dryness of the soil were exceedingly detrimental to the growth of vegetation. Thunderstorms were somewhat prevalent from the 22d to the 26th, but they were scattered, and, as a rule, did not furnish even temporary relief from the drought. The continued deficiency in the rainfall materially reduced the water supply for the large cities and for manufacturing and other purposes. The month closed with moderate to heavy showers in all parts of the district except the extreme north.

SUNSHINE.

The amounts of clear weather and sunshine were far above the normal, and were not equaled last year in any month before July. The average number of hours of sunshine for 11 stations was 309, and the percentage of possible sunshine averaged 66. As compared with the rest of the district, the weather in and near Connecticut was remarkably cloudy, the effect of which may be seen in the temperatures recorded in that region. At Hartford, Conn., the percentage of possible sunshine was only 52, while it was 73 at Boston, 72 at New York, and showed a general increase southward, rising to 86 at Mount Weather, Va., where the sun shone 382 hours within the month.

The number of days with 0.01 inch or more of precipitation averaged 6, the number of clear days 17, partly cloudy days 10, and cloudy days 4.

RIVER CONDITIONS.

At the beginning of the month the rivers in most parts of the district contained good volumes of water, and the heavy rains of the 1st caused a noticeable rise that culminated about the 3d. Owing to the scarcity of rainfall during the remainder of the month, there followed a general decline in the river stages that continued with little interruption until about the 30th or 31st. At several stations lower stages were recorded than in any other May since the beginning of river observations from five to eight years ago.

TABLE 1.—Climatological data for May, 1911. District No. 1, North Atlantic States.

Stations.	Counties.	Temperature, in degrees Fahrenheit.										Precipitation, in inches.									
		Elevation, feet.	Length of record, years.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Maine.</i>																					
Bar Harbor.	Hancock.	20	25	55.6	+ 3.6	65	22	30	4	42	T.	- 3.46	T.	T.	0	19	4	8	sw.	Wm. Miller.	
Cornish.	York.	778	56	62.0	+ 7.4	100	22	24	5	43	1.00	- 2.67	0.30	T.	8	14	9	8	w.	T. H. West.	
Eastport.	Washington.	53	39	51.0	+ 4.1	76	13	28	4	35	0.13	- 3.67	0.06	T.	5	9	11	11	s.	U. S. Weather Bureau.	
Fairfield.	Somerset.	90	26	60.2	+ 6.1	98	22	28	5	44	1.34	- 1.84	0.45	0	5	16	7	8	sw.	E. F. Parker.	
Farmington.	Franklin.	450	14	60.3	+ 6.2	100	22	20	5	53	1.20	- 2.46	0.60	T.	4	14	13	4	sw.	W. G. Mallett.	
Gardiner.	Kennebec.	163	19	59.5	+ 4.2	98	22	25	5	46	1.10	- 2.60	0.58	0	5	18	4	9	se.	Samuel D. Soule.	
Greenville.	Piscataquis.	1,000	7	57.2	.....	90	21†	26	4	40	0.40	.....	0.10	T.	7	28	1	2	w.	U. S. Weather Bureau.
Houlton.	Aroostook.	362	9	61.0	.....	94	21	22	5	54	0.03	.....	0.03	T.	0	1	2	1	s.	Bangor & Aroostook R. R.
Lewiston.	Androscoggin.	185	37	60.6	+ 6.0	101	23	31	5	42	0.56	- 3.06	0.28	T.	3	14	8	9	s.	Union Water Power Co.	
Madison.	Somerset.	257	8	59.2	97	23	23	5	40	0.59	0.24	T.	0	3	19	6	6	sw.	William Jardine.
Moosehead.	Penobscot.	388	8	59.5	.....	96	22	22	5	52	0.51	.....	0.24	T.	3	12	7	12	s.	H. S. Ferguson.
North Bridgton.	Cumberland.	450	18	61.6	+ 6.7	100	22	26	5	50	1.35	- 2.17	0.90	T.	6	18	7	6	sw.	G. E. Chadbourne.	
Orono.	Penobscot.	129	42	59.2	+ 6.5	96	22	26	4†	47	0.75	- 2.86	0.33	T.	11	6	14	14	sw.	Agricultural Exp. Station.	
Patten.	do.	550	9	58.0 ^c	.....	96	29	18	5	57 ^c	2.58	.....	2.00	T.	4	13 ^b	8 ^b	4 ^b	sw.	Bangor & Aroostook R. R.
Portland.	Cumberland.	99	40	56.8	+ 3.3	91	21	22	4	38	1.37	- 2.30	0.55	T.	9	14	6	11	s.	U. S. Weather Bureau.	
Presque Isle.	Aroostook.	2	58.0 ^b	.....	97	23	27	5	45 ^b	0.34	.....	0.29	T.	0	22 ^b	5 ^b	5 ^b	nw.	San Lorenzo Merriman.	
Rumford Falls.	Oxford.	505	18	60.3	+ 6.6	97	23	27	5	40	0.88	- 2.74	0.29	T.	4	18	11	2	w.	Chas. A. Mixer.	
Winslow.	Kennebec.	90	16	61.2	.....	98	22	29	5	45	0.61	.....	0.45	T.	0	16	6	9	w.	Hollingsworth & Whitney Co.
<i>New Hampshire.</i>																					
Alstead Center.	Cheshire.	1,120	7	61.2	+ 3.3	91	23	24	4	35	1.70	- 0.96	0.83	0	8	19	8	4	sw.	Frank Dewing.	
Benton.	Grafton.	2	59.6	.....	92	11	16	3	42	2.23	.....	1.05	T.	4	21	3	7	s.	N. H. State Sanatorium.	
Bethlehem.	do.	1,470	19	59.2	+ 5.2	91	23	24	4	40	1.10	- 1.96	0.31	T.	7	23	3	5	nw.	Benj. Tucker.	
Concord.	Merrimack.	350	51	61.6	+ 5.9	98	23	26	5	46	1.57	- 1.67	0.40	T.	8	13	11	7	se.	U. S. Weather Bureau.	
Durham.	Stafford.	88	16	60.6	+ 5.8	94	23	25	4	47	1.10	- 1.57	0.56	0	6	18	3	10	se.	Agricultural Exp. Station.	
Franklin.	Merrimack.	440	12	63.1	.....	100	22	23	5	47	0.73	.....	0.23	T.	16	9	6	6	sw.	Dr. C. P. Webster.
Grafton.	Grafton.	863	25	59.8	+ 6.5	95	22	20	5	51	1.39	- 1.83	0.47	1.0	8	20	6	5	w.	P. R. Kimball.	
Hanover.	do.	603	77	61.0	+ 5.6	95	23	24	4	48	1.29	- 1.44	0.63	0.2	9	9	10	12	nw.	Dartmouth College.	
Keene.	Cheshire.	506	26	61.6	+ 5.3	98	23	23	4†	50	0.88	- 2.50	0.38	T.	7	16	11	4	nw.	Samuel Wadsworth.	
Nashua.	Hillsboro.	125	26	63.4	+ 6.2	100	22	27	5	46	1.47	- 1.94	0.66	0	8	17	4	4	sw.	Jackson Co.	
Newton.	Rockingham.	23	59.7	+ 4.5	93	22	24	4	41	0.68	- 2.95	0.18	0	6	11	16	4	sw.	W. C. Gale.		
Plymouth.	Grafton.	500	23	60.7	+ 7.1	95	22	22	5	49	0.76	- 2.60	0.22	T.	5	18	3	10	w.	Mrs. Hattie G. Trow.	
<i>Vermont.</i>																					
Bloomfield.	Essex.	4	58.6	.....	98	22	20	5	48	1.08	.....	0.34	T.	7	19	8	4	s.	Lyman Falls L. & P. Co.	
Cavendish.	Windham.	910	8	60.9	.....	98	22	23	4†	46	0.47	.....	0.26	T.	0	3	23	5	w.	Miss M. Kingsbury.
Chelsea.	Orange.	840	16	58.8	+ 6.2	93	22	20	5	49	0.44	- 2.20	0.18	1.0	8	14	9	8	w.	W. F. Dewey.	
Jacksonville.	Windham.	1,000	26	62.0	+ 8.7	91	22	22	4†	47	2.06	- 1.99	0.75	0	7	21	7	3	ne.	Miss Martha French.	
Manchester.	Bennington.	930	12	62.0	92	22	24	4	34	0.29	0.19	T.	0	3	17	10	4	sw.	N. M. Canfield.
Saint Johnsbury.	Caledonia.	711	18	61.6	+ 6.5	98	22	23	5	48	1.08	- 1.66	0.35	T.	8	18	8	5	nw.	Fairbanks Museum.	
Woodstock.	Windsor.	700	19	60.4	+ 5.5	95	20	22	6	51	2.39	- 0.82	0.66	T.	0	7	13	6	12	sw.	John S. Eaton.
<i>Massachusetts.</i>																					
Amherst.	Hampshire.	222	22	62.4	+ 5.4	94	22	27	4	42	1.37	- 2.46	0.58	0	8	19	8	4	s.	Agri. Exp. Station.	
Blue Hill.	Norfolk.	640	27	60.6	+ 5.1	93	22	27	4	33	0.89	- 2.88	0.39	0	8	17	6	8	s.	A. L. Rotch.	
Boston.	Suffolk.	124	41	62.4	+ 5.8	92	22	33	4	31	0.35	- 3.16	0.17	0	5	11	8	12	sw.	U. S. Weather Bureau.	
Chestnut Hill.	do.	124	31	64.0	+ 6.1	96	23	29	4	37	0.58	- 2.98	0.18	0	6	23	3	5	sw.	Met. Water Board.	
Clinton.	Worcester.	370	15	62.2	.....	92	22	30	3	35	1.41	.....	0.43	0	5	21	3	7	sw.	Do.
Concord.	Middlesex.	139	21	61.4	+ 5.2	98	22	25	5	44	0.29	- 2.83	0.25	0	3	12	11	8	s.	Fred A. Tower.	
Fall River.	Bristol.	200	45	60.0	+ 3.2	93	22	33	3†	38	1.95	- 2.28	0.90	0	9	10	4	4	sw.	C. V. S. Remington.	
Fitchburg.	Worcester.	550	28	63.8	+ 6.5	97	22	28	4	38	1.80	- 1.66	1.40	0	7	18	5	8	e.	Dr. A. P. Mason.	
Framingham.	Middlesex.	160	31	63.4	+ 5.3	96	22	29	4	42	0.72	- 2.67	0.32	0	7	17	6	8	sw.	Met. Water Board.	
Hyannis.	Barnstable.	31	20	56.6	+ 0.2	77	22	33	4	27	0.76	- 2.86	0.29	0	10	17	6	8	sw.	C. F. Sleeper.	
Lawrence.	Essex.	51	27	62.6	+ 4.5	98	22	29	4†	44	0.30	- 3.41	0.25	0	2	13	14	4	ne.	Essex Co.	
Lowell.	Middlesex.	100	26	64.6	+ 7.1	98	22	29	4	41	0.81	- 2.89	0.61	0	5	4	17	10	sw.	Props. Locks & Canals.	
Middleboro.	Plymouth.	53	25	59.6	+ 4.3	91	23	26	5	42	0.97	- 3.03	0.34	0	5	17	11	3	sw.	A. R. Gurney.	
Monson.	Hampden.	420	27	61.4	+ 4.0	93	22	30	7	48	0.59	- 2.81	0.25	0	5	17	13	9	sw.	Dr. G. E. Fuller.	
Nantucket.	Nantucket.	15	25	54.4	+ 1.4	74	13	36	4	27	0.82	- 1.85	0.42	0	8	14	10	7	sw.	U. S. Weather Bureau.	
New Bedford.	Bristol.	58	99	59.8	+ 5.1	83	22	34	4	32	1.45	- 2.50	0.72	0	6	20	2	9	sw.	City Engineer.	
Norfolk.	do.	244	8	60.6	.....	97	22	22	4	51	1.63	.....	0.86	0	6	20	7	4	w.	Ruby H. Martyn.
Northampton.	Hampshire.	205	3	58.6	.....	92	23	27	4	40	0.61	.....	0.19	0	5	23	0	8	sw.	D. E. Hoxie.
Plymouth.	Plymouth.	26	53	58.6	.....	92	23	27	4	30	0.27	- 3.03	0.17	0	2	19	0	12	sw.	Laura B. Knapp.
Provincetown.	Barnstable.	40	24	56.5	+ 2.2	83	22	34	4	30	0.27	- 3.03	0.37	0	7	17	5	9	sw.	Gideon Bowley.	
Rockport.	Essex.	25	9	56.3	.....	92	22	30	4	30	0.90	.....	0.70	0	4	13	9	9	sw.	C. F. P. Bearse.
Rutland.	Worcester.	1,160	9	60.8	.....	92	22	24	3	40	1.87	.....	0.95	0	4	17	8	6	sw.	State Sanatorium.
South Egremont.	Berkshire.	764	9	59.6	.....	91	22	23	5	44	1.43	.....	0.40	0	8	17	8	6	sw.	Roscoe C. Taft.
Turners Falls.	Franklin.	200	20	62.6	+ 5.0	90	22	30	4	40											

TABLE 1.—Climatological data for May, 1911. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direc- tion.	Observers.	
				Mean.	Departure from the normal.	Highest. Date.	Lowest. Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Sky.									
<i>Connecticut—Contd.</i>																						
Storrs.....	Tolland.....	640	23	62.2	+ 6.6	92	22	32	6	41	0.33	— 3.55	0.27	0	2	23 ^a	0 ^a	7 ^a	s.		Agri. Exp. Station. Prof. E. H. Forbes. F. S. Bitgood. N. J. Welton.	
Torrington.....	Litchfield.....	625	10																			
Voluntown.....	New London.....	280	26																			
Waterbury.....	New Haven.....	400	36	63.2	+ 5.1	94	22	28	4 ^b	44	0.87	— 3.36	0.29	0	8	14	12	5				
<i>New York.</i>																						
Addison.....	Steuben.....	1,000	21	64.9	+ 7.2	98	22	24	4	49	2.56	— 1.48	0.83	T.	10	22	7	2	sw.	Dr. H. R. Ainsworth.		
Albany.....	Albany.....	97	90	65.5	+ 6.6	97	22	31	4	36	2.15	— 0.83	0.75	T.	10	15	13	3	s.	U. S. Weather Bureau. Prof. F. S. Place.		
Alfred.....	Allegany.....	1,976	16	61.8 ^c	+ 6.9	92	23 ^c	22	3	32	3.53	— 0.80	1.74	0.5	9	5	23	7	w.	Emery Elwood.		
Amsterdam.....	Montgomery.....	277	7	63.6		97	22	26	4	39	1.50		0.80	T.	5	9	16	10	5	E. C. Brooks.		
Athens.....	Greene.....	90	9	65.0		94	22	31	3 ^c	42	2.37		1.16	T.	5	19	6	6	w.	George R. Schaeber.		
Ballston Lake.....	Saratoga.....	400	7	62.7		94	22	25	4	42	1.61		0.95	T.	10	11	8	12	e.	Dr. L. Rosenberg.		
Bedford.....	Westchester.....	450	20	64.4	+ 5.7	93	22	29	4	38	1.25	— 3.31	0.63	0	11	16	12	3		U. S. Weather Bureau.		
Binghamton.....	Broome.....	875	20	63.6	+ 6.8	94	22	27	4	42	1.94	— 1.15	0.69	T.	10	11	8	8	nw.	L. W. Griswold.		
Bouckville.....	Madison.....	1,350	14	61.2	+ 6.9	92	22	21	4	38	3.30	0.02	1.33	T.	10	15	8	8	nw.	Thomas Manning.		
Boyd's Corners.....	Putnam.....	560	29								2.61	— 2.07									Do.	
Carmel.....	do.....	500	19	62.8	+ 3.5	91	23	28	4	45	2.75	— 1.62	1.02	0	11	20	2	9	ne.	Morton R. Tank.		
Chatham.....	Columbia.....	470	10	64.4	+ 6.8	96	22	27	5	42	1.00	— 2.14	0.30	T.	8	22	4	5	n.	Miss Elizabeth Keese.		
Cooperstown.....	Otsego.....	1,250	57								2.77	— 0.87	0.70	T.	8	22	6	3	w.	A. M. Hollister.		
Corinth.....	Saratoga.....	542	9								3.08		1.10		6						F. G. Baker.	
Cortland.....	Cortland.....	1,129	49			94	23 ^c	26	4	43	2.20	— 1.80	1.43	T.	5	22	6	3	nw.	Wm. A. Fleet.		
Cutchogue.....	Suffolk.....	32	34	60.0	+ 2.7	80	13 ^c	31	4	32	0.92	— 1.49	0.38	0	7	14	16	1	sw.	B. D. Crandall.		
De Ruyter.....	Madison.....	1,300	8	60.6		92	23	23	4	44	3.05		1.04	T.	9	19	7	5	nw.	H. Taber.		
Easton.....	Washington.....	21									1.63	— 2.18	1.11	0	2						Prof. C. L. Williams.	
Glen Falls.....	Warren.....	340	20	66.0	+ 7.8	98	22	27	4	44	1.46	— 1.61	0.79	0	6	15	6	10	s.	W. L. McLean.		
Gloversville.....	Fulton.....	850	19	62.4	+ 6.6	96	22	24	4	39	1.25	— 2.75	0.38	0	7	20	8	3	w.	S. E. Darow.		
Greenfield Center.....	Saratoga.....	314	13	62.9	+ 5.8	96	22	25	4	41	2.43	— 0.55	0.75	0	10	15	16	0	w.	Homer J. Whitcomb.		
Greenwich.....	Washington.....	425	14	68.4	+ 10.1	97	22	27	4	43	2.86	— 0.46	0.98	0	10	17	11	3	w.	Harold O. Judd.		
Griffin Corners.....	Delaware.....	2,260	11	61.7	+ 8.5	94	22	19	5	48	0.87	— 2.10	0.31	T.	5					W. G. Collins.		
Haskinville.....	Steuben.....	16									2.87	— 0.33	0.90	0.5	10						Charles C. Mortimer.	
Homer.....	Cortland.....	20	61.8	+ 7.8	92	21	23	4	42	2.69		0.73	T.	7	20	6	5	nw.	Sanford L. Cluett.			
Hoosick Falls.....	Rensselaer.....	410	9								2.44		1.23	T.	8						Lester Severe.	
Indian Lake.....	Hamilton.....	1,708	12	59.2	+ 6.8	95	22 ^c	20	5	53	2.57	— 0.65	0.75	0	8	13	12	6	w.	Charles Wilpert, Jr.		
Jeffersonville.....	Sullivan.....	1,240	17	62.1		96	22	20	4	47	1.12		0.23	T.	7	17	11	3	s.	Dr. H. M. King.		
Liberty.....	do.....	2,300	29	59.9	+ 5.5	89	21 ^c	21	4	34	1.76	— 2.26	0.52	0	8	20	1	10	nw.	O. J. Dempster.		
Little Falls.....	Herkimer.....	924	13	63.0	+ 7.0	95	22	27	3	39	1.70	— 1.71	0.70	T.	8	24	3	4	w.	Albert K. Smiley.		
Mohonk Lake.....	Ulster.....	1,245	15	63.4	+ 5.9	89	22	27	3	30	2.77	— 1.00	0.89	0	8	22	5	5	w.	Theo C. Remonda.		
Morehouseville.....	Hamilton.....	1,687	3	57.0		89	22	18	4	44	3.47		0.85	0	10	21	5	5		W. A. Cornelius.		
Mount Hope.....	Westchester.....	200	14	64.1	+ 4.9	87	22	34	3	36	3.54	— 0.96	0.90	0	12	9	18	4		M. D. Clinton.		
Newark Valley.....	Tioga.....	825	24								2.59	+ 0.02	0.77	0.5	7						Roger Greene.	
New Berlin.....	Chenango.....	4									2.17		1.10	T.	11	21	2	8	s.	Edward Spain.		
Newcomb.....	Essex.....	1,600	0	58.4		92	21	20	5	49	1.70	— 2.22	0.61	1.0	7	18	5	8	s.	G. A. Yates.		
New Lisbon.....	Otsego.....	1,234	21	58.4	+ 5.2	93	22	17	5	49	1.70	— 2.27	0.61	0	10	11	12	6	sw.	U. S. Weather Bureau.		
New York City.....	New York.....	314	86	59.3	+ 4.3	84	22	36	3	27	0.91		0.65	0	4	20	5	6	w.	W. G. Kenwell.		
North Creek.....	Warren.....	1,003	3	62.0		94	23	23	5	42	1.80		0.97		6					P. C. Pickard.		
Northville.....	Fulton.....	742	9								3.00		1.84	1.0	6	22	7	2		P. L. Clark.		
Norwich.....	Chenango.....	1,015	5	62.24		94	22 ^c	26	5 ^b	44	2.36		2.44	T.	8	23	4	4	nw.	H. W. Lee.		
Oneonta.....	Otsego.....	1,112	17	63.8	+ 5.7	97	22	26	5	44	2.15	— 1.11	1.12	T.	8	11	17	3	w.	John P. Davis.		
Oxford.....	Chenango.....	916	46	61.9	+ 6.3	92	22	24	5	46	2.49	— 0.46	1.85	0	8	22	1	8	sw.	Prof. Thomas Colby.		
Oyster Bay.....	Nassau.....	40	7	63.9		86	22	36	3	31	1.07		0.34	0	8	19	9	3	sw.	F. E. Carruth.		
Port Jervis.....	Orange.....	470	27	65.3	+ 5.8	97	22	27	4	43	1.11	— 3.20	0.63	0	8	19	9	3	w.	John Omara.		
Rome.....	Oneida.....	445	15	62.4		95	23	24	4	38	2.94		1.10	T.	5	16	14	1	w.	Joseph Ryan.		
Sallsbury.....	Herkimer.....	1,526	14	59.6	+ 5.3	92	21	20	5	47	2.18	— 2.24	1.20	T.	5	16	10	3	sw.	C. H. Wilmarth.		
Scarsdale.....	Westchester.....	200	7	63.7		85	22	32	3 ^b	37	1.47	— 0.67	0.67	T.	5	16	10	3	sw.	Seahal Strong.		
Setauket.....	Suffolk.....	40	26	60.4	+ 2.3	83	23	35	5	33	0.90	— 2.74	0.21	0	10	16	7	8	e.	E. B. Collins.		
Southampton.....	Suffolk.....	36	10	58.6	+ 2.9	78	10 ^c	29	3	33	1.23	— 2.22	0.81	T.	4	21	1	4	sw.	W. L. Jaggar.		
Southeast Reservoir.....	Putnam.....	310	16			95	21	24	4	43	1.92		0.94	0	4	9	19	3	w.	Thomas Manning.		
Spier Falls.....	Saratoga.....	400	10	65.4							2.69	— 0.78	0.4	0	8	11	16	4	sw.	George E. Fifield.		
Trenton Falls.....	Oneida.....	751	8								1.50		0.60	0	4					C. W. Young.		
Tribeshill.....	Montgomery.....	268	8								0.92	— 2.74	0.27	0	6					R. S. Marshall.		
Utica.....	Oneida.....	537	45								2.46	— 1.72	2.11	0	3					W. E. Young.		
Wading River.....	Suffolk.....	112	5	61.0		88	22	26	5	44	1.22		0.50	0	14	23	6	2	sw.	H. B. Fullerton.		
Wappingers Falls.....	Dutchess.....	110	21	64.4	+ 3.6	89	22	31	4	39	1.52	— 3.31	0.42	0	7	18	12	1	s.	H. C. Townsend.		
Warwick.....	Orange.....	538	17								0.62	— 3.41	0.22	0	10	18	10	3	w.	John W. Sly.		
Waverly.....	Tioga.....	824	29	64.8	+ 6.8	97	22	23	4 ^b	50	2.35	— 1.01	0.65	0.2	12	10	16	5	sw.	J. F. Shoemaker.		
Wells.....	Hamilton.....	1,000	5	63.2		99	23	21	5	50	3.93		1.05	0	8	14	12	5	se.	V. E. Dewey.		
West Berne.....	Albany.....</td																					

MONTHLY WEATHER REVIEW.

MAY, 1911

TABLE 1.—Climatological data for May, 1911. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.						Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Pervailing wind direction.			
<i>Pennsylvania—Contd.</i>																						
Montrose.	Susquehanna.	1,658	7	61.9		91	23	22	4	38	2.60		0.85	0.1	9	19	9	3	se.	Silas Jagger.		
Muncy Valley.	Sullivan.	519	1	64.8		93	29†	27	3	37	2.45		0.82	T.	5	23	0	3	w.	F. W. Buck.		
New Germantown.	Perry.	873	7	63.4*		92	23	29	4	40	1.60		0.70	0	3	23 ^b	1 ^b	3 ^b	ne.	Ed. C. Johnston.		
Philadelphia (1).	Philadelphia.	117	40	67.9	+ 5.7	94	23	40	3	39	1.68	- 1.52	0.86	0	7	15	9	7	ne.	U. S. Weather Bureau.		
Pocono Lake.	Monroe.	1,662	9	61.0		94	22	20	5	50	2.59		1.12	0	7	11	10	10	w.	Pocono Lake Ice Co.		
Reading.	Berks.	280	38	68.0	+ 6.3	94	19	32	5	41	3.54	- 0.47	1.54	0	9	10	9	11	s.	Wm. B. Schuck.		
Scranton.	Lackawanna.	805	11	65.8	+ 7.0	93	22	33	3	35	2.26	- 1.18	0.80	0	10	11	9	11	s.	U. S. Weather Bureau.		
Selinsgrove.	Snyder.	455	23	66.0	+ 4.6	94	22	26	4	44	2.59	- 1.87	1.37	0	8	0	28	3	sw.	J. M. Boyer, C. E.		
State College.	Center.	1,191	23	65.4	+ 6.3	91	22	31	3	34	2.42	- 1.81	0.68	0	10	11	7	15	sw.	Prof. Wm. Fress.		
Towanda.	Bradford.	754	16	63.8	+ 5.3	92	23	25	5†	40	2.30	- 0.81	0.96	0.1	7	18	13	0	sw.	Hiram E. Bull, C. E.		
Wellsville.	Tioga.	1,327	34	62.8	+ 5.8	95	22	23	4	45	1.83	- 2.50	0.61	0	7	18	13	0	w.	O. L. White.		
West Chester.	Chester.	455	57	67.4	+ 6.9	93	23†	35	3	34	1.17	- 3.41	0.67	0	6	16	8	7	nw.	J. C. Green, D. S. S.		
Williamsport.	Lycoming.	530	21	67.0	+ 6.4	92	23†	31	4†	36	1.28	- 1.44	0.33	0	6	22	1	8	sw.	Henry H. Guise.		
<i>New Jersey.</i>																						
Ashbury Park.	Monmouth.	22	23	59.1	+ .4	82	13	35	4	32	0.31	- 3.40	0.12	0	3	17	7	7	s.	R. H. Ober.		
Atlantic City.	Atlantic.	16	38	59.4	+ 1.9	84	19	38	3	25	0.50	- 2.50	0.26	0	5	15	10	6	s.	U. S. Weather Bureau.		
Bayonne.	Hudson.	50	21	63.8	+ 3.5	89	18	37	3	34	0.76	- 2.82	0.45	0	8	13	10	8	se.	John H. Eadie.		
Belvidere.	Warren.	289	20	65.7	+ 5.0	93	23	30	4	43	2.95	- 0.94	1.25	0	7	16	8	7	sw.	Samuel J. Hixson.		
Bergen Point.	Hudson.	37	14	63.8	+ 4.1	89	12	36	3	34	0.73	- 3.25	0.30	0	8	10	16	5	se.	Dr. William H. Mitchell.		
Boonton.	Morris.	413	21	67.7	+ 3.8	95	23	33	3	40	1.38	- 2.55	0.68	0	3	15	9	7	sw.	Foster Peer.		
Bridgeton.	Cumberland.	30	30	67.7	+ 3.8	95	23	33	3	40	1.38	- 3.05	0.96	0	4	15	11	5	se.	Henry A. Jorden.		
Burlington.	Burlington.	12	27	67.7	+ 3.8	95	23	33	3	40	1.38	- 2.13	0.70	0	5	15	9	7	sw.	D. S. B. McCoy.		
Canton.	Salem.	24	17	67.0	+ 2.4	84	13	42	3	25	0.41	- 2.58	0.10	0	8	11	2	ne.	John H. Maskell.			
Cape May City.	Cape May.	17	27	61.0	+ 2.4	84	13	42	3	25	0.41	- 2.58	0.10	0	8	11	2	5	se.	U. S. Weather Bureau.		
Charlottesville.	Passaic.	719	19	62.6	+ 5.3	93	22	25	4	41	1.44	- 3.36	0.65	0	6	14	12	5	se.	George S. Briggs.		
Chatham.	Morris.	234	9	67.2	+ 5.3	99	19	33	4	40	0.90	- 2.36	0.44	0	8	17	7	7	sw.	M. A. Butler.		
Clayton.	Gloucester.	126	18	67.2	+ 5.3	99	19	33	4	40	1.55	- 2.35	0.75	0	10	14	11	6	sw.	William T. Farley.		
College Farm.	Middlesex.	100	16	65.4	+ 5.9	91	22†	33	3	40	1.55	- 2.93	0.30	0	9	15	9	7	se.	George B. Thrasher.		
Culvers Lake.	Sussex.	848	10	65.4	+ 4.1	94	23	33	4	39	0.57	- 2.75	0.55	0	8	16	10	5	se.	Brice E. Riker.		
Dover.	Morris.	600	27	63.0	+ 4.4	91	11†	30	4	37	1.39	- 2.86	0.76	0	8	17	8	7	se.	William C. Harris.		
Elizabeth.	Union.	33	32	66.8	+ 4.6	92	11	38	4	36	1.06	- 2.65	1.33	0	5	10	15	5	se.	William M. Oliver.		
Flemington.	Hunterdon.	187	23	65.9	+ 6.0	94	22	29	4	44	1.64	- 2.86	0.76	0	5	10	10	7	e.	Hiram E. Deats.		
Haddonfield.	Camden.	75	24	66.6	+ 4.9	94	23	33	4	39	0.57	- 3.34	0.17	0	5	10	17	4	ne.	Charles F. Richardson.		
Hammonston.	Atlantic.	103	13	65.3	+ 4.2	95	19	30	4	41	1.19	- 2.63	0.69	0	7	15	10	6	sw.	Orville Bassett.		
Hightstown.	Mercer.	119	19	65.3	+ 4.2	95	19	30	4	41	1.19	- 2.63	0.69	0	12	14	11	6	se.	Ernst Wenger.		
Highwood.	Bergen.	90	22	62.7		89	22	27	4	43	1.59	- 2.85	0.52	0	6	17	7	7	sw.	Charles J. Bates.		
Indian Mills.	Burlington.	76	22	65.8	+ 3.8	96	23	28	4	44	1.19	- 2.85	0.74	0	5	14	10	7	sw.	James Armstrong.		
Jersey City.	Hudson.	15	13	65.4	+ 4.3	87	13	37	3	34	1.05	- 2.13	0.65	0	10	15	6	6	sw.	Samuel K. Pearson, Jr.		
Lakewood.	Ocean.	54	9	63.4		91	11	30	4	37	0.55	- 2.88	0.24	0	4	14	10	7	se.	Ralph Robertson.		
Lambertville.	Hunterdon.	95	25	66.8	+ 5.1	92	19†	33	4	40	1.73	- 2.34	1.15	0	5	15	10	6	sw.	William R. Bowe.		
Layton.	Passaic.	550	12	63.2	+ 5.3	94	22†	22	4	47	1.35	- 1.98	0.31	0	6	15	10	5	sw.	Warren C. Hursch.		
Little Falls.	Sussex.	175	8	65.3		94	22†	27	4	47	1.35	- 2.44	1.15	0	9	15	11	5	sw.	A. Sweetman.		
Mahwah.	Bergen.	312	9	65.2		94	22	27	4	47	1.35	- 2.44	1.15	0	9	15	11	5	sw.	C. L. Barker.		
Moorestown.	Somerset.	76	28	66.2	+ 6.1	94	22	29	4	42	1.50	- 2.62	0.98	0	6	15	10	6	sw.	John C. Beans.		
Newark.	Essex.	200	41	64.2	+ 4.2	88	11	32	4	32	1.98	- 1.48	1.67	0	7	13	13	5	n.	Prof. William Wiener.		
New Brunswick.	Middlesex.	61	58	65.7	+ 5.1	94	12	31	4	40	1.35	- 2.56	0.72	0	8	15	11	5	sw.	William T. Woerner.		
Northfield.	Atlantic.	4	4	67.0		94	19	30	4	41	0.59	- 2.88	0.35	0	4	14	12	5	sw.	William L. Flick.		
Paterson.	Passaic.	80	40	64.8	+ 3.5	91	22	31	4	37	1.37	- 3.12	0.56	0	6	9	17	5	s.	Heber A. Probert.		
Phillipsburg.	Warren.	363	14	66.2	+ 4.9	95	22†	32	4	40	3.84	- 0.21	2.07	0	9	15	8	8	n.	D. W. Smith.		
Plainfield.	Union.	100	25	65.2	+ 4.9	94	22	30	4	41	1.66	- 2.17	1.04	0	6	13	13	5	sw.	John Neagle.		
Pleasantville.	Atlantic.	28	13	65.3		94	19	32	4	39	0.48	- 2.88	0.28	0	4	14	10	6	sw.	Lincoln Van Gilder.		
Pompton Plains.	Morris.	195	9	65.7		94	19	32	4	41	1.54	- 2.86	0.68	0	8	15	10	6	sw.	M. S. Taylor.		
Riverview.	Bergen.	70	20	65.5	+ 4.4	89	22	24	4	41	0.82	- 3.61	0.25	0	7	11	15	5	sw.	Garrett S. M. Holdrum.		
Somerville.	Somerset.	200	41	66.2	+ 6.1	94	22	29	4	42	1.50	- 2.62	0.98	0	6	15	10	6	sw.	Peter Hardcastle.		
South Orange.	Essex.	200	41	64.2	+ 4.2	88	11	32	4	32	1.98	- 1.48	1.67	0	7	13	13	5	sw.	Dr. W. J. Chandler.		
Sussex.	Sussex.	442	21	64.1	+ 4.2	96	22	26*	4	42	1.00	- 2.91	0.25	0	9	15	7	9	sw.	George Dymock.		
Tuckerton.	Ocean.	23	18	61.8	+ 2.1	90	20	30	3	39	0.68	- 2.75	0.31	0	5	15	10	6	se.	F. R. Austin.		
Vineland.	Cumberland.	118	42	66.8	+ 4.6	97	19	32	4	41	0.64	- 3.23	0.43	0	5	15	10	6	se.	Alfred Chalmers.		
Woodbine.	Cape May.	43	20	64.7	+ 4.3	92	18	35	3†	40	2.42	- 1.48	1.54	0	5	14	12	5	sw.	Prof. H. A. Dodge.		
<i>West Virginia.</i>																						
Bayard.	Grant.	2,500	10	60.6	+ 3.4	90	22	22	5	45	2.71	- 1.37	0.68	T.	9	20	6	5	w.	Solomon Clark.		
Burlington.	Mineral.	875	17	66.5	+ 5.0	94	21	27	6	51	0.20	- 3.83	0.10	0	2	16	15	0	w.	J. W. Vandiver.		
Franklin.	Pendleton.	5	5	64.9*		91	23	28	6	42	0.03	- 3.30	0.27	0	2	24 ^b	1 ^b	1	sw.	A. A. Martin.		
Lost City.	Hardy.	5	5	63.0		86	11															

TABLE 1.—*Climatological data for May, 1911. District No. 1—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmetted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Maryland—Continued.</i>																					
Laurel.....	Prince George.....	150	17	67.6	+ 4.0	96	19	31	6	42	1.51	- 2.05	0.58	0	5	11	20	0	.....	Dr. T. M. Baldwin.
Leonardtown.....	St. Marys.....	1	69.4	.....	95	19	33	3	32	0.33	.....	0.19	0	3	23	2	1	s.	Brother Fidells.	
Monrovia.....	Frederick.....	630	24	68.3	+ 5.5	97	19	33	3	34	1.15	- 2.54	0.64	0	4	19	12	1	s.	J. H. Lawson.	
Porto Bello.....	Worcester.....	37	18	68.0	+ 2.9	94	20	39	6	30	0.29	- 2.09	0.29	0	1	23	7	1	s.	Hon. R. M. Stevenson.	
Princess Anne.....	Somerset.....	38	6	66.5	.....	92	31	37	3	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. M. Coad.
Salisbury.....	Wicomico.....	17	18	65.6	+ 3.0	90	20†	32	6	37	0.60	- 2.38	0.44	0	2	4	24	3	sw.	J. R. Stewart.	
Solomons.....	Calvert.....	23	6	68.0	.....	98	20	32	6	42	0.18	.....	0.12	0	4	16	14	1	sw.	W. E. Downing.
State Sanitarium.....	Frederick.....	1,200	3	68.3	.....	92	19	34	3	36	1.00	- 2.22	0.74	0	3	9	11	11	se.	Dr. W. H. Marsh.
Seafidersville.....	Queen Anne.....	65	12	68.7	+ 4.8	97	19	35	3	38	0.39	- 2.92	0.28	T.	4	25	5	1	sw.	Joseph V. Shimek.	
Takoma Park.....	Montgomery.....	320	13	67.4	+ 4.1	93	19	35	3	39	0.39	- 2.88	0.16	0	4	6	23	2	.....	Jas. E. Higman.
Taneytown.....	Carroll.....	450	12	68.4	+ 6.4	99	20	35	3	48	1.81	- 2.20	1.00	0	4	18	12	1	.....	L. M. Moarers.
Towson.....	Baltimore.....	465	3	68.2	.....	96	19	34	3	37	0.99	.....	0.61	0	6	25	5	1	se.	James B. Galt.
Van Bibber.....	Harford.....	100	14	66.3	+ 3.4	93	18†	34	5	45	2.77	- 1.67	1.77	0	6	5	3	27	1	C. W. E. Treadwell.
Westernport.....	Allegany.....	1,000	17	66.4	+ 4.4	95	11†	29	5	45	1.16	- 2.98	0.38	0	6	22	8	1	se.	W. Benj. Ford.	
Woodstock.....	Baltimore.....	392	37	69.8	+ 6.9	93	18	36	6	38	0.57	- 3.30	0.17	0	5	22	8	1	se.	Prof. O. H. Bruce.	
																				Rev. A. J. Donlon, S. J.	
<i>Delaware.</i>																					
Delaware City.....	New Castle.....	20	9	66.8	.....	91	23	37	3	34	0.58	.....	0.52	0	3	29	1	1	s.	H. Morton Price.
Dover.....	Kent.....	40	23	68.6	+ 5.0	96	19	34	3	35	1.24	- 2.42	0.49	0	4	21	7	3	se.	Thos. F. Dunn.	
Milford.....	do.....	20	27	68.2	+ 5.3	95	18	35	3	37	0.36	3.59	0.24	0	3	23	8	1	c.	C. J. Holzmueller.
Millsboro.....	Sussex.....	20	19	65.0	+ 2.0	91	11	33	7	40	0.53	- 3.28	0.31	0	3	27	3	1	ne.	Rev. L. W. Wells.	
Seaford.....	do.....	40	18	67.6	+ 4.3	96	19	35	6	37	0.72	- 3.48	0.50	0	3	27	3	1	s.	E. B. Brown.	
<i>District of Columbia.</i>																					
Washington.....	.....	112	41	70.0	+ 5.8	96	19	37	6	35	0.87	- 2.96	0.68	0	7	23	5	3	s.	U. S. Weather Bureau.
<i>Virginia.</i>																					
Culpeper.....	Culpeper.....	450	3	69.7	.....	95	20†	33	3	38	0.95	.....	0.85	0	2	10	21	0	se.	Col. H. C. Burrows.
Dale Enterprise.....	Rockingham.....	1,350	32	65.6	+ 3.7	94	18†	24	3	46	0.42	- 4.10	0.25	0	6	9	19	3	s.	Rev. L. J. Heatwole.	
Dowell.....	Hanover.....	134	10	70.6	.....	98	18†	32	3	42	0.33	.....	0.20	0	2	24	6	1	s.	Rich., Fdkbsg. & Pot. R. R.
Eastville.....	Northampton.....	15	1	68.4	+ 2.7	94	20	40	5	33	1.13	- 3.30	1.00	0	4	20	9	2	se.	Thos. B. Robertson.	
Fredericksburg.....	Spotsylvania.....	100	23	70.0	+ 4.9	98	18†	32	3	38	1.29	- 2.87	0.53	0	6	21	9	1	c.	S. G. Howison.	
Lincoln.....	Loudon.....	500	10	71.6	+ 8.2	102	22	33	6	51	0.83	- 3.61	0.44	0	4	9	21	1	ne.	Dr. Geo. Roberts.	
Mount Weather.....	do.....	1,726	7	66.6	+ 7.1	88	18	33	3	26	1.64	- 2.11	0.97	0	7	19	10	2	w.	U. S. Weather Bureau.	
Quantico.....	Prince William.....	16	14	69.0	+ 5.2	98	20	32	3	36	0.47	.....	0.47	0	1	26	4	1	se.	Rich., Fdkbsg. & Pot. R. R.
Staunton.....	Augusta.....	1,380	19	68.1	+ 4.8	93	18†	31	3	39	1.29	- 2.63	0.47	0	8	14	15	2	sw.	Ernest Notchagle.	
Warsaw.....	Richmond.....	160	19	70.2	+ 4.8	97	19†	33	3	41	0.29	- 3.37	0.18	0	5	10	19	2	s.	C. H. Constable.	
Woodstock.....	Shenandoah.....	927	15	68.0	+ 4.3	97	18	34	6	47	1.70	- 2.04	0.88	0	5	12	19	0	w.	Mrs. A. G. Miley.	

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

**Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

†Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for May, 1911. District No. 1, North Atlantic States.*

TABLE 2.—*Daily precipitation for May, 1911. District No. 1—Continued.*

Stations.	River basins.	Day of month.																														Total.														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31														
<i>Rhode Island—Con.</i>																																														
Hope Valley.....	Coast.....	.01																																T. .05	1.95											
Kingston.....	do.....																																	.07	.02	1.97										
Narragansett Pier.....	do.....	.05																																			1.68									
Pawtucket.....	do.....																																				.01	.07	2.13							
Providence.....	do.....	T. T.																																			T. T.	.06	2.04							
Walum Lake.....	do.....	.03																																					.05	.05	.22	1.20				
<i>Connecticut.</i>																																														
Bridgeport.....	Coast.....	T.																																			T. .15	1.12								
Canton.....	Connecticut.....	T.																																			T. .57	2.60								
Colchester.....	Coast.....	.06																																			T. T.	.04	0.84							
Cream Hill.....	Housatonic.....	.27																																												
Danielson.....	Coast.....																																													
Falls Village.....	Housatonic.....	.27																																												
Hartford.....	Connecticut.....	T. .03																																												
Hawleyville.....	Housatonic.....	.50	20																																											
Lake Konomoc.....	Coast.....																																													
New Haven.....	do.....	T.																																												
New London.....	do.....	.03																																												
N. Grosvenor Dale.....	do.....																																													
Norwalk.....	do.....																																													
Southington.....	do.....	T.																																												
South Manchester.....	Connecticut.....																																													
Storrs.....	Coast.....																																													
Torrington.....	Housatonic.....																																													
Voluntown.....	Coast.....																																													
Wallingford.....	do.....	.04																																												
Waterbury.....	Housatonic.....	.04																																												
West Simsbury.....	Connecticut.....	.01																																												
<i>New York.</i>																																														
Addison.....	Susque'na.....	.48	11	T.																																										
Albany.....	Hudson.....	.27	16	T.																																										
Alfred.....	Susque'na.....	.35	04																																											
Amsterdam.....	Mohawk.....	.02	80	T.																																										
Athens.....	Hudson.....	.20	20	T.																																										
Bainbridge [I].....	Susque'na.....	.21	46																																											
Ballston Lake.....	Hudson.....	T.	95	T.																																										
Bedford.....	Coast.....	.05	T.																																											
Binghampton.....	Susque'na.....	.32	01	T.																																										
Blue Ridge.....	Hudson.....	.17	63																																											
Boneckville.....	Susque'na.....	.05	41	T.																																										
Carmel [I].....	Hudson.....	.02	12	T.																																										
Chatham.....	do.....	T.	25	T.																																										
Cooperstown.....	Susque'na.....	.35																																												
Corinth [I].....	Hudson.....	.35																																												
Cortland.....	Susque'na.....	.01	14	T.																																										
Cutchogue.....	Coast.....	.05																																												
De Ruyter.....	Susque'na.....	.10	1.04	T.																																										
Easton.....	Hudson.....	.52																																												
Glen Falls.....	do.....	.03	36																																											
Gloversville.....	Mohawk.....																																													

TABLE 2.—*Daily precipitation for May, 1911. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for May, 1911. District No. 1—Continued.*

* Precipitation included in that of the next measurement.
† Separate dates of falls not recorded.

MONTHLY WEATHER REVIEW.

MAY, 1911

TABLE 3.—*Maximum and minimum temperatures for May, 1911. District No. 1, North Atlantic States.*

Date.	Maine.										Concord, N. H.	Massachusetts.								Provi- dence, R. I.	Connecticut.														
	Eastport.		Greenville.		Orono.		Portland.		Presque Isle.			Amherst.		Boston.		Middle- boro.		Nan- tucket.			Cream Hill.		Hartford.												
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.											
1....	48	42	56	48	75	47	53	46	67	43	70	50	72	54	68	53	73	54	58	51	52	48	59	48	65	50	71	54							
2....	53	40	57	46	69	46	66	39	76	48	66	38	62	40	58	37	68	43	72	51	59	39	69	38	53	34	64	40	54						
3....	40	37	59	50	64	52	44	32	59	33	40	32	45	33	45	37	52	47	37	49	35	46	37	54	26	48	35	45	28	52					
4....	45	28	40	26	50	26	50	27	43	27	46	31	50	30	54	27	54	33	55	29	47	36	54	33	45	27	56	32	43	35	52				
5....	50	31	60	28	66	26	58	34	67	22	62	27	64	26	66	28	68	40	64	26	57	39	54	33	60	32	64	36	53	36	52				
6....	62	38	69	36	72	30	65	39	70	29	68	33	73	31	74	32	73	38	81	50	79	37	70	43	62	38	60	32	64	36	53	36	52		
7....	74	39	69	44	76	36	80	42	74	40	76	36	80	34	80	44	81	58	81	39	67	46	75	50	75	45	82	54	83	52	82	60	54	78	
8....	75	47	80	42	82	35	75	53	84	40	81	44	84	41	82	44	81	58	81	39	67	46	75	52	82	54	83	52	82	60	54	78			
9....	56	41	77	44	81	47	68	47	74	40	75	52	73	47	76	52	66	48	71	51	64	51	63	47	62	52	62	48	62	53	62	53	62	53	
10....	60	40	65	44	72	46	75	46	65	52	72	47	76	52	80	40	73	57	76	48	62	48	79	54	75	46	83	52	82	60	54	78			
11....	48	38	65	31	73	31	60	48	68	32	75	44	92	50	89	58	85	50	68	51	62	49	59	48	65	34	71	52	82	60	54	78			
12....	55	43	82	45	83	42	74	55	84	42	84	49	89	61	87	60	82	61	69	60	58	50	69	53	69	56	82	54	83	52	82	56	54	78	
13....	76	42	71	53	78	52	76	51	68	45	73	48	72	47	72	50	80	57	83	54	74	49	57	62	45	72	56	82	54	83	52	82	56	54	78
14....	61	41	68	47	72	34	59	46	68	26	72	36	71	38	74	40	57	50	69	60	55	42	68	48	72	45	81	54	83	52	82	56	54	78	
15....	57	38	68	31	73	35	57	43	70	36	73	40	76	41	74	45	73	48	68	33	58	40	65	44	71	54	80	57	83	52	82	56	54	78	
16....	61	48	65	45	70	49	73	56	63	40	72	53	74	50	78	54	75	59	74	52	66	50	75	57	70	53	81	57	83	52	82	56	54	78	
17....	73	41	72	37	76	51	70	48	72	32	76	39	80	39	82	50	66	51	76	48	67	50	71	54	76	51	81	57	83	52	82	56	54	78	
18....	69	45	75	46	78	45	76	53	79	45	74	52	81	57	85	54	82	56	83	48	65	50	83	53	82	55	83	52	82	56	54	78			
19....	58	44	70	44	77	38	53	46	74	45	70	49	80	51	81	51	81	61	64	51	77	54	65	49	75	54	83	52	82	56	80	54	78		
20....	56	45	78	48	77	47	64	46	85	54	81	54	80	51	80	59	67	50	80	50	68	51	77	53	80	58	83	52	82	56	80	54	78		
21....	63	46	90	55	83	55	73	51	54	54	89	59	91	60	87	68	87	65	88	61	70	55	73	50	83	58	84	52	82	56	80	54	78		
22....	63	47	88	59	96	56	91	58	86	62	97	63	98	62	94	66	92	68	91	64	70	56	85	65	92	64	93	63	83	60	80	58	78		
23....	56	45	72	53	87	53	68	50	76	53	70	54	74	50	78	51	78	51	75	51	60	47	73	50	86	52	84	52	82	56	80	54	78		
24....	50	42	64	45	63	46	50	47	72	49	64	51	68	56	69	51	66	55	65	51	65	48	61	50	86	52	84	52	82	56	80	54	78		
25....	53	42	68	46	74	45	68	54	74	52	78	50	76	55	72	55	78	50	64	51	65	49	77	58	80	55	81	57	82	56	80	54	78		
26....	62	44	73	51	74	48	61	49	74	52	78	50	76	55	72	55	78	50	64	51	65	49	77	58	80	55	81	57	82	56	80	54	78		
27....	66	46	80	48	81	49	70	49	86	48	83	50	86	52	82	55	84	52	89	51	74	48	61	49	77	52	80	58	81	57	82	56	80	54	78
28....	74	49	90	50	87	53	76	54	91	63	91	54	92	62	92	66	86	58	82	41	72	49	74	52	86	62	83	58	81	57	82	56	80	54	78
29....	63	46	86	62	89	59	80	59	59	54	92	62	92	62	95	65	89	60	85	55	66	52	83	57	81	63	83	58	81	57	82	56	80	54	78
30....	68	54	68	46	76	51	72	53	70	42	76	52	79	54	82	62	70	60	74	61	67	52	73	60	66	56	74	57	81	57	82	56	80	54	78
31....	55	46	69	37	77	40	60	50	70	31	72	45	74	50	73	54	64	55	67	48	64	51	66	56	66	49	68	57	81	57	82	56	80	54	78
Mus..	59.9	42.2	70.1	44.2	75.6	42.9	66.2	47.4	73.8b	42.3b	73.6	47.0	75.6	47.6	75.5	49.4	72.1	52.8	71.9	47.3	61.8	46.9	70.8	50.7	72.6	51.0	74.3	52.2							

Date.	New York.										Everett.	Pennsylvania.								Atlantic City, N. J.													
	New Haven, Conn.		Addison.		Albany.		Binghamton.		Indian Lake.			Little Falls.		New York.		Harrisburg.		Philadelphia.		Scranton.		State College.		Wellsboro.									
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.								
1....	66	51	76	50	72	60	75	58	60	42	75	58	69	54	81	61	82	61	79	58	77	61	77	59	80	51	81	57	82	56	80		
2....	64	42	64	35	63	37	58	32	59	30	71	32	67	40	69	38	65	41	70	43	64	36	64	34	62	35	66	44	73	57	80		
3....	50	35	46	27	43	33	42	28	53	24	37	27	52	36	50	39	57	35	54	38	47	33	48	31	47	28	52	38	47	28	52	38	47
4....	58	33	59	24	55	31	53	27	45</																								

TABLE 3.—Maximum and minimum temperatures for May, 1911. District No. 1—Continued.

Date.	New Jersey.								Martinsburg, W. Va.	Maryland.								Millsboro, Del.	Washington, D. C.	Virginia.									
	Bridgeton.		Hightstown.		Phillipsburg.		Sussex.			Baltimore.		Darling-ton.		Frederick.		Western-port.					Culpeper.		Fredericksburg.		Staunton.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	86	58	84	58	79	61	77	.....	86	57	85	61	82	61	86	60	80	54	87	61	86	62	83	62	86	64	81	60
2....	75	51	70	50	64	41	69	42	59	52	68	44	76	48	77	47	75	41	75	49	68	43	77	53	79	52	61	50	
3....	62	33	57	33	55	35	50	31	59	39	58	41	58	32	59	36	57	34	62	35	60	40	63	33	66	32	62	31	
4....	65	35	61	30	60	32	58	26	65	36	64	45	63	32	65	36	59	30	61	39	64	43	66	44	67	45	66	41	
5....	70	40	66	34	65	35	65	29	72	36	65	47	65	41	66	36	65	29	67	34	65	44	66	44	69	44	66	38	
6....	75	35	72	36	73	36	73	32	78	36	68	44	71	37	71	34	71	30	71	35	72	37	71	34	73	37	71	34	
7....	77	42	80	39	80	40	78	36	81	36	75	49	76	43	76	38	79	35	73	33	76	42	75	37	75	41	76	37	
8....	67	46	76	44	79	47	78	41	72	48	66	55	67	50	71	48	74	43	55	48	66	53	67	52	63	51	63	49	
9....	72	48	69	50	71	47	74	45	78	48	75	52	74	48	79	48	73	54	65	41	77	49	77	44	79	48	74	50	
10....	86	51	85	50	83	55	84	53	89	54	85	61	85	54	86	58	90	50	80	53	85	61	88	51	89	53	85	52	
11....	94	56	92	57	93	60	90	59	94	55	91	62	88	59	93	55	95	50	91	60	94	62	94	59	96	62	91	51	
12....	92	64	91	65	89	62	86	62	92	56	87	64	88	63	91	63	90	51	90	65	92	70	93	68	94	67	92	65	
13....	87	60	88	63	77	60	77	53	85	62	85	63	83	65	84	63	91	52	84	63	88	64	87	63	89	64	84	59	
14....	76	50	73	45	78	45	77	39	78	49	73	55	75	45	76	46	78	42	69	49	74	53	78	77	54	76	51		
15....	75	43	77	37	78	44	74	39	84	49	73	53	71	46	80	47	88	47	67	44	78	48	81	45	84	46	82	46	
16....	89	56	81	54	81	57	81	56	93	53	91	59	91	56	91	58	92	54	87	54	93	60	92	57	92	59	91	58	
17....	81	61	76	56	74	57	75	54	88	60	81	68	82	63	87	61	92	55	75	61	89	63	92	66	86	63	90	60	
18....	94	56	92	54	91	56	90	55	96	61	95	67	88	59	94	62	93	56	78	60	95	64	90	61	98	60	93	59	
19....	94	65	95	60	93	61	89	58	98	64	91	70	93	59	96	64	91	57	90	67	96	67	91	62	98	63	93	62	
20....	92	61	75	57	76	62	75	59	97	64	88	68	85	63	93	66	95	59	83	61	95	68	95	62	95	64	90	62	
21....	90	60	86	58	90	64	91	61	95	65	85	65	86	62	91	64	94	57	85	58	93	64	95	61	94	62	92	59	
22....	90	60	94	60	95	63	96	61	97	66	90	67	90	62	93	65	93	58	83	60	94	66	94	63	95	63	92	60	
23....	95	60	94	53	95	59	90	64	97	66	90	64	90	65	94	66	98	62	88	59	95	68	94	62	90	63	89	64	
24....	76	54	66	53	68	55	69	55	88	67	72	59	88	56	81	64	84	62	71	56	80	61	88	67	84	65	90	62	
25....	85	55	80	53	77	57	73	58	87	59	88	64	81	55	85	58	86	49	80	56	85	61	89	54	86	57	90	58	
26....	78	53	80	49	82	54	82	46	88	56	78	61	81	58	81	55	81	53	73	53	81	59	84	60	79	60	88	58	
27....	83	54	80	55	85	56	85	50	86	57	81	62	82	56	83	58	84	55	74	51	81	58	84	56	79	55	83	56	
28....	90	50	89	48	90	53	89	51	92	56	85	60	86	55	88	56	90	50	78	47	86	56	89	53	84	54	88	54	
29....	86	56	90	54	92	58	90	57	95	58	84	64	83	58	90	58	91	56	83	57	89	58	90	55	84	53	90	54	
30....	91	63	86	61	84	64	78	63	92	62	86	68	85	58	91	64	89	56	88	56	90	65	92	61	86	59	89	61	
31....	84	64	72	59	68	60	70	57	85	64	82	66	79	57	87	66	76	55	83	63	86	67	89	64	88	67	88	60	
Mns..	82.5	52.9	70.7	50.9	79.5	52.8	78.5	449.7	85.3	54.5	80.0	59.8	80.2	53.7	83.4	54.9	83.4	49.5	77.4	52.5	82.8	57.3	84.4	55.0	84.1	55.8	82.9	53.4	

^{a, b, c, etc.}, indicate respectively, 1, 2, 3, etc., days missing from the record.^{\$} Data are from standard instruments not supplied by the U. S. Weather Bureau.[§] Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost occurs.